

Title (en)
A surface-mounted integrated current sensor

Title (de)
Oberflächenmontierter integrierter Stromsensor

Title (fr)
Déecteur de courant intégré monté en surface

Publication
EP 1691204 B1 20071212 (EN)

Application
EP 05425073 A 20050215

Priority
EP 05425073 A 20050215

Abstract (en)
[origin: EP1691204A1] Described herein is a surface-mounted integrated current sensor (1) for use in a printed circuit (2) having a track (16) along which there flows, in use, the electric current to be measured. The current sensor (1) comprises a package (3) having a bottom face (14) facing, in use, the printed circuit (2), and on which there is set an electrically conductive bottom piece (15), which, in use, makes contact with the track (16) of the printed circuit (2) in such a way as to be traversed by the current to be measured. The current sensor (1) moreover comprises a sensor element, for example a Hall-effect one, designed to generate a voltage proportional to the electric current that flows through the bottom piece (15).

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G01R 15/20 (2006.01); **H10N 52/80** (2023.01)

CPC (source: EP US)
G01R 15/207 (2013.01 - EP US); **G01R 15/202** (2013.01 - EP US); **H01L 2224/48247** (2013.01 - EP US); **H01L 2224/73265** (2013.01 - EP US); **H01L 2924/181** (2013.01 - EP US)

C-Set (source: EP US)
H01L 2924/181 + H01L 2924/00012

Cited by
CN102016606A; EP2278345A3; JP2006242946A; WO2009148823A1; US11994541B2; US9859489B2; US10069063B2; US11567108B2; US10935612B2

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